

82  
16  
54. (Amended) A purified antibody, which binds to the polypeptide according to any one of claims ~~62-67~~<sup>10-15</sup> [46-51].

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60. (Amended) A composition comprising the polypeptide of any one of claims ~~62-67~~<sup>10</sup> [46-51] and a pharmaceutically acceptable carrier.

Please add claims 62-67.

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62. A purified polypeptide having an amino acid sequence encoded by a purified nucleic acid sequence comprising at least one gene selected from the group consisting of *ureE*, *ureF*, *ureG*, *ureH*, and *ureI* represented by nucleotides 800 to 1309, 1324 to 2091, 2123 to 2719, 2722 to 3516, and 211 to 795, respectively, of SEQ ID NO:1 and Figure 4.

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63. A purified polypeptide according to claim ~~62~~<sup>10</sup>, having an amino acid sequence encoded by a purified nucleic acid sequence comprising the *ureE* gene represented by nucleotides 800 to 1309 of SEQ ID NO:1 and Figure 4 or a sequence comprising at least 20 contiguous nucleic acid residues that hybridizes under stringent conditions selected from the group consisting of

- a) 68°C in 6 x SSC Denhardt medium; and
- b) 37°C in 5 x SSC 50% formamide

with the *ureE* sequence or with a sequence that is complementary to the *ureE* sequence and not to other sequences in *H. pylori*.

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64. A purified polypeptide according to claim ~~62~~<sup>10</sup>, having an amino acid sequence encoded by a purified nucleic acid sequence comprising the *ureF* gene represented by nucleotides 1324 to 2091 of SEQ ID NO:1 and Figure 4 or a sequence comprising at least 20

contiguous nucleic acid residues that hybridizes under stringent conditions selected from the group consisting of

- a) 68°C in 6 x SSC Denhardt medium; and
- b) 37°C in 5 x SSC 50% formamide

with the *ureF* sequence or with a sequence that is complementary to the *ureF* sequence and not to other sequences in *H. pylori*.

<sup>13</sup> ~~65.~~ <sup>The</sup> A purified polypeptide according to claim <sup>10</sup> ~~62~~, having an amino acid sequence encoded by a purified nucleic acid sequence comprising the *ureG* gene represented by nucleotides 2123 to 2719 of SEQ ID NO:1 and Figure 4 or a sequence comprising at least 20 contiguous nucleic acid residues that hybridizes under stringent conditions selected from the group consisting of

- a) 68°C in 6 x SSC Denhardt medium; and
- b) 37°C in 5 x SSC 50% formamide

with the *ureG* sequence or with a sequence that is complementary to the *ureG* sequence and not to other sequences in *H. pylori*.

<sup>14</sup> ~~66.~~ <sup>The</sup> A purified polypeptide according to claim <sup>10</sup> ~~62~~, having an amino acid sequence encoded by a purified nucleic acid sequence comprising the *ureH* gene represented by nucleotides 2722 to 3516 of SEQ ID NO:1 and Figure 4 or a sequence comprising at least 20 contiguous nucleic acid residues that hybridizes under stringent conditions selected from the group consisting of

- a) 68°C in 6 x SSC Denhardt medium; and
- b) 37°C in 5 x SSC 50% formamide